

**DECLARATION AND POWER OF ATTORNEY FOR UNITED STATES PATENT APPLICATIONS**

(X) Original      ( ) Supplemental      ( ) Substitute

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name, and

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if more than one name is listed below) of the subject matter which is claimed and for which a United States patent is sought on the invention entitled

**Gene Encoding a Protein Involved in the Signal Transduction Cascade Leading to Systemic Acquired Resistance in Plants**

the specification of which

is attached hereto.

was filed on June 20, 1997 as Application No. 08/880,179 and, if these brackets contain an X [ ], was amended on

was filed as Patent Cooperation Treaty international Application No. PCT/ on , 199 , if these brackets contain an X [ ], entered the national stage in the United States and was accorded Application No. and, if these brackets contain an X [ ], was amended, subsequent to entry into the national stage on , 199 .

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment (s) referred to above and, if this application was filed as a Patent Cooperation Treaty international application, by an amendments made during the international stage (including any made under Patent Cooperation Treaty Rule 91, Article 19 and Article 34).

I acknowledge the duty to disclose all information which is known by me to be material to the patentability of this application as defined in 37 C.F.R. §1.56.

I hereby claim the benefit under 35 U.S.C. §119 (a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate listed below and under 35 U.S.C. §365(a) of any Patent

Cooperation Treaty international application(s) designating at least one country other than the United States listed below and have also listed below any foreign application(s) for patent or inventor's certificate and Patent Cooperation Treaty international application(s) designating at least one country other than the United States for the same subject matter and having a filing date before that of the application the priority of which is claimed for that subject matter:

Country (or PCT)	Application No.	Filing Date (Month/Day/Year)	Priority Claimed
_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below:

<u>Application No.</u>	<u>Filing Date</u>
60/020,272	June 21, 1996
60/024,883	August 30, 1996
60/033,177	December 13, 1996
60/034,379	December 27, 1996
60/034,730	January 10, 1997
60/035,022	January 10, 1997

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) listed below and under 35 U.S.C. §365(c) of any Patent Cooperation Treaty international application(s) designating the United States listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in said prior application(s) in the manner required by the first paragraph of 35 U.S.C. §112, I acknowledge my duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. §1.56 which became available between the filing date(s) of the prior application(s) and the national or Patent Cooperation Treaty international filing date of this application:

<u>United States Application No.</u>	<u>United States Filing Date</u>	<u>STATUS (Pending, Abandoned or U.S. Patent No.)</u>	<u>International Application No. and Filing Date</u>

I hereby appoint the registered practitioners associated with Customer No. 001095 (currently)

Michael W. Glynn (Reg. No. 27,285)	Melvyn M. Kassenoff (Reg. No. 26,389)
Joseph J. Borovian (Reg. No. 26,631)	Diane E. Furman (Reg. No. 31,104)
Geoffrey Karny (Reg. No. 31,382)	Marla J. Mathias (Reg. No. 32,663)
Thomas Hoxie (Reg. No. 32,993)	William A. Teoli, Jr. (Reg. No. 33,104)
Henry P. Nowak (Reg. No. 33,200)	George R. Dohmann (Reg. No. 33,593)
Kenneth R. Moseley (Reg. No. 33,973)	Larry W. Stults (Reg. No. 34,025)
Michael P. Morris (Reg. No. 34,513)	R. Scott Meece (Reg. No. 34,675)
Michael U. Lee (Reg. No. 35,240)	Carol A. Loeschorn (Reg. No. 35,590)
Gregory D. Ferraro (Reg. No. 36,134)	J. Timothy Meigs (Reg. No. 38,241)
Gary M. Pace (Reg. No. 40,403)	Hesna J. Pfeiffer (Reg. No. 22,640),
Gabriel Lopez (Reg. No. 28,440)	Norbert Gruenfeld (Reg. No. 30,061)
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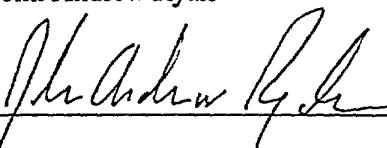
Please address all telephone calls to J. Timothy Meigs (919) 541-8587. Please address all correspondence to Michael W. Glynn, Patent & Trademark Department, Novartis Corporation, 59 Rte 10, East Hanover, New Jersey 07936-1080.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

IMPORTANT: Before this declaration is signed, the patent application (the specification, the claims and this declaration) must be read and understood by each person signing it, and no changes may be made in the application after this declaration has been signed.

Full name of sole John Andrew Ryals  
or first inventor

Inventor's signature



Date 28 August 1998

Residence 303 Brittany Place  
Cary, North Carolina 27511

Citizenship United States

Post Office Address Same as Above

Full name of second Terrence Patrick Delaney  
or joint inventor, if any

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence 18 Bean Hill Lane  
Ithaca, New York 14850

Citizenship United States

Post Office Address Same as Above

Full name of third joint inventor, if any     Leslie Bethards Friedrich

Inventor's signature

*Leslie Bethards Friedrich* Date 28 August 1997

Residence     4208 Wyckford Place  
Apex, North Carolina 27502

Citizenship     United States

Post Office Address     Same as Above

Full name of fourth joint inventor, if any     Kristianna Baldwin Weymann

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence     7033 SE 34<sup>th</sup> Street  
Portland, Oregon 97202

Citizenship     United States

Post Office Address     Same as Above

Full name of fifth or joint inventor, if any     Kay Ann Lawton

Inventor's signature *Kay Ann Lawton* Date 28 August 1997

Residence     8016 Crooked Chute Court  
Raleigh, North Carolina 27612

Citizenship     United States

Post Office Address     Same as Above

Full name of sixth joint inventor, if any Daniel Murray Ellis

Inventor's signature

Date

8/29/97

Residence 201 Medcon Court  
Cary, North Carolina 27511

Citizenship United States

Post Office Address Same as Above

Full name of seventh joint inventor, if any Scott Joseph Uknes

Inventor's signature

Date

8-28-97

Residence 1003 Pinedale Drive  
Apex, North Carolina 27502

Citizenship United States

Post Office Address Same as Above

Full name of eighth joint inventor, if any Taco Peter Jesse

Inventor's signature

Date

Residence Johan Fabriciuskade 10  
6708 SG, The Netherlands

Citizenship

Post Office Address Same as Above

Full name of ninth joint inventor, if any **Pieter Vos**

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence **Dorpstraat 22  
3927 BD Renswoude, The Netherlands**

Citizenship **Netherlands**

Post Office Address **Same as Above**

110029036 - DE122

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Full name of sole or first inventor      John Andrew Ryals

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence      303 Brittany Place  
Cary, North Carolina 27511

Citizenship      United States

Post Office Address      Same as Above

Full name of second or joint inventor, if any      Terrence Patrick Delaney

Inventor's signature Terrence Patrick Delaney Date Sept. 3 1997

Residence      18 Bean Hill Lane  
Ithaca, New York 14850

Citizenship      United States

Post Office Address      Same as Above

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Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

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Post Office Address     Same as Above

Full name of eighth joint inventor, if any     Taco Peter Jesse

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

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Post Office Address     Same as Above

Full name of ninth joint inventor, if any. Pieter Vos

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or first inventor

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

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Cary, North Carolina 27511

Citizenship United States

Post Office Address Same as Above

Full name of second Terrence Patrick Delaney  
or joint inventor, if any

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence 18 Bean Hill Lane  
Ithaca, New York 14850

Citizenship United States

Post Office Address Same as Above

Full name of third joint inventor, if any     Leslie Bethards Friedrich

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence     4208 Wyckford Place  
Apex, North Carolina 27502

Citizenship     United States

Post Office Address     Same as Above

Full name of fourth joint inventor, if any     Kristianna Baldwin Weymann

Inventor's signature Kristianna Baldwin Weymann Date 3 Sept 97

Residence     7033 SE 34<sup>th</sup> Street  
Portland, Oregon 97202

Citizenship     United States

Post Office Address     Same as Above

Full name of fifth or joint inventor, if any     Kay Ann Lawton

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence     8016 Crooked Chute Court  
Raleigh, North Carolina 27612

Citizenship     United States

Post Office Address     Same as Above

Full name of sixth joint inventor, if any Daniel Murray Ellis

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence 201 Medcon Court  
Cary, North Carolina 27511

Citizenship United States

Post Office Address Same as Above

Full name of seventh joint inventor, if any Scott Joseph Uknas

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence 1003 Pinedale Drive  
Apex, North Carolina 27502

Citizenship United States

Post Office Address Same as Above

Full name of eighth joint inventor, if any Taco Peter Jesse

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence Johan Fabriciuskade 10  
6708 SG, The Netherlands

Citizenship

Post Office Address Same as Above

Full name of ninth joint inventor, if any      Pieter Vos

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence      Dorpstraat 22  
                  3927 BD Renswoude, The Netherlands

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10075036624502

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60/034,730	January 10, 1997
60/035,022	January 10, 1997

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) listed below and under 35 U.S.C. §365(c) of any Patent Cooperation Treaty international application(s) designating the United States listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in said prior application(s) in the manner required by the first paragraph of 35 U.S.C. §112, I acknowledge my duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. §1.56 which became available between the filing date(s) of the prior application(s) and the national or Patent Cooperation Treaty international filing date of this application:

I hereby appoint the registered practitioners associated with Customer No. 001095 (currently)

Michael W. Glynn (Reg. No. 27,285) . . . . . Melvyn M. Kassenoff (Reg. No. 26,389)

Joseph J. Borovian (Reg. No. 26,631) Diane E. Furman (Reg. No. 31,104)

Geoffrey Karny (Reg. No. 31,382) Marla J. Mathias (Reg. No. 32,663)

Thomas Hoxie (Reg. No. 32,993) William A. Teoli, Jr. (Reg. No. 33,104)

Henry P. Nowak (Reg. No. 33,200) George R. Dohmann (Reg. No. 33,593)

Kenneth R. Moseley (Reg. No. 33,973)      Larry W. Stults (Reg. No. 34,025)

Michael P. Morris (Reg. No. 34,513) R. Scott Meece (Reg. No. 34,675)

Michael U. Lee (Reg. No. 35,240) Carol A. Loeschorn (Reg. No. 35,590)

Gregory D. Ferraro (Reg. No. 36,134) J. Timothy Meigs (Reg. No. 38,241)

Gary M. Pace (Reg. No. 40,403) Hesna J. Pfeiffer (Reg. No. 22,640),

Gabriel Lopez (Reg. No. 28,440) Norbert Gruenfeld (Reg. No. 30,061)

Lynn Marcus-Wyner (Reg. No. 34,869)

respectively and individually, as my attorneys and agents, with full power of substitution, and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

If these brackets contain an X [ X ], I hereby authorize the registered practitioners associated with Customer No. 001095 and any others acting on my behalf to take any action relating to this application based on communications from the Patents and Trademarks Division of Novartis Services AG., Basle, Switzerland, or an affiliate thereof or a successor thereto, without direct communication from me.

Please address all telephone calls to J. Timothy Meigs (919) 541-8587. Please address all correspondence to Michael W. Glynn, Patent & Trademark Department, Novartis Corporation, 59 Rte 10, East Hanover, New Jersey 07936-1080.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**IMPORTANT:** Before this declaration is signed, the patent application (the specification, the claims and this declaration) must be read and understood by each person signing it, and no changes may be made in the application after this declaration has been signed.

Full name of sole John Andrew Ryals  
or first inventor

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence 303 Brittany Place  
Cary, North Carolina 27511

Citizenship United States

Post Office Address Same as Above

Full name of second Terrence Patrick Delaney  
or joint inventor, if any

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence 18 Bean Hill Lane  
Ithaca, New York 14850

Citizenship United States

Post Office Address Same as Above

Full name of third joint inventor, if any     Leslie Bethards Friedrich

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence     4208 Wyckford Place  
Apex, North Carolina 27502

Citizenship     United States

Post Office Address     Same as Above

Full name of fourth joint inventor, if any     Kristianna Baldwin Weymann

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence     7033 SE 34<sup>th</sup> Street  
Portland, Oregon 97202

Citizenship     United States

Post Office Address     Same as Above

Full name of fifth or joint inventor, if any     Kay Ann Lawton

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence     8016 Crooked Chute Court  
Raleigh, North Carolina 27612

Citizenship     United States

Post Office Address     Same as Above

Full name of sixth joint inventor, if any      Daniel Murray Ellis

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence      201 Medcon Court  
Cary, North Carolina 27511

Citizenship      United States

Post Office Address      Same as Above

Full name of seventh joint inventor, if any      Scott Joseph Uknnes

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence      1003 Pinedale Drive  
Apex, North Carolina 27502

Citizenship      United States

Post Office Address      Same as Above

Full name of eighth joint inventor, if any      Taco Peter Jesse

Inventor's signature \_\_\_\_\_ Date Sept. 10<sup>th</sup> 1997

Residence      Johan Fabriciuskade 10  
6708 SG The Netherlands

Citizenship

Post Office Address      Same as Above

Full name of ninth joint inventor, if any  
Pieter Vos

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence Dorpstraat 22  
3927 BD Renswoude, The Netherlands

Citizenship Netherlands

Post Office Address Same as Above

**DECLARATION AND POWER OF ATTORNEY FOR UNITED STATES PATENT APPLICATIONS**

(X) Original      ( ) Supplemental      ( ) Substitute

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name, and

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if more than one name is listed below) of the subject matter which is claimed and for which a United States patent is sought on the invention entitled

**Gene Encoding a Protein Involved in the Signal Transduction Cascade Leading to Systemic Acquired Resistance in Plants**

the specification of which

is attached hereto.

was filed on June 20, 1997 as Application No. 08/880,179 and, if these brackets contain an X [ ], was amended on

was filed as Patent Cooperation Treaty international Application No. PCT/ on , 199 , if these brackets contain an X [ ], entered the national stage in the United States and was accorded Application No. and, if these brackets contain an X [ ], was amended, subsequent to entry into the national stage on , 199 .

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment (s) referred to above and, if this application was filed as a Patent Cooperation Treaty international application, by an amendments made during the international stage (including any made under Patent Cooperation Treaty Rule 91, Article 19 and Article 34).

I acknowledge the duty to disclose all information which is known by me to be material to the patentability of this application as defined in 37 C.F.R. §1.56.

I hereby claim the benefit under 35 U.S.C. §119 (a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate listed below and under 35 U.S.C. §365(a) of any Patent

Cooperation Treaty international application(s) designating at least one country other than the United States listed below and have also listed below any foreign application(s) for patent or inventor's certificate and Patent Cooperation Treaty international application(s) designating at least one country other than the United States for the same subject matter and having a filing date before that of the application the priority of which is claimed for that subject matter:

Country (or PCT)	Application No.	Filing Date (Month/Day/Year)	Priority Claimed
_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below:

<u>Application No.</u>	<u>Filing Date</u>
60/020,272	June 21, 1996
60/024,883	August 30, 1996
60/033,177	December 13, 1996
60/034,379	December 27, 1996
60/034,730	January 10, 1997
60/035,022	January 10, 1997

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) listed below and under 35 U.S.C. §365(c) of any Patent Cooperation Treaty international application(s) designating the United States listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in said prior application(s) in the manner required by the first paragraph of 35 U.S.C. §112, I acknowledge my duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. §1.56 which became available between the filing date(s) of the prior application(s) and the national or Patent Cooperation Treaty international filing date of this application:

<u>United States Application No.</u>	<u>United States Filing Date</u>	<u>STATUS (Pending, Abandoned or U.S. Patent No.)</u>	<u>International Application No. and Filing Date</u>

I hereby appoint the registered practitioners associated with Customer No. 001095 (currently)

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Geoffrey Karny (Reg. No. 31,382)	Marla J. Mathias (Reg. No. 32,663)
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Full name of sole John Andrew Ryals  
or first inventor

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence 303 Brittany Place  
Cary, North Carolina 27511

Citizenship United States

Post Office Address Same as Above

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Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence 18 Bean Hill Lane  
Ithaca, New York 14850

Citizenship United States

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Full name of third joint inventor, if any     Leslie Bethards Friedrich

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence     4208 Wyckford Place  
Apex, North Carolina 27502

Citizenship     United States

Post Office Address     Same as Above

Full name of fourth joint inventor, if any     Kristianna Baldwin Weymann

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence     7033 SE 34<sup>th</sup> Street  
Portland, Oregon 97202

Citizenship     United States

Post Office Address     Same as Above

Full name of fifth or joint inventor, if any     Kay Ann Lawton

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence     8016 Crooked Chute Court  
Raleigh, North Carolina 27612

Citizenship     United States

Post Office Address     Same as Above

Full name of sixth Daniel Murray Ellis  
joint inventor, if any

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence 201 Medcon Court  
Cary, North Carolina 27511

Citizenship United States

Post Office Address Same as Above

Full name of seventh Scott Joseph Uknus  
joint inventor, if any

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence 1003 Pinedale Drive  
Apex, North Carolina 27502

Citizenship United States

Post Office Address Same as Above

Full name of eighth Taco Peter Jesse  
joint inventor, if any

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence Johan Fabriciuskade 10  
6708 SG, The Netherlands

Citizenship

Post Office Address Same as Above

Full name of ninth joint inventor, if any  
Pieter Vos

Inventor's signature

Pieter Vos

Date 10.09.1997

Residence Dorpstraat 22  
3927 BD Renswoude, The Netherlands

Citizenship Netherlands

Post Office Address Same as Above